

On the probability of the event: In n generalized allocation schemes the volume of each cell does not exceed r

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Abstract

© Afonina A.I., Kayumov I.R., Chuprunov A.N. 2016. We consider n identical generalized schemes of allocating particles in cells. We study the probability of the event: for each generalized allocation scheme, there are at most r particles in each cell, where r is a given number. We obtain an asymptotic estimate for this probability and we consider the application of the obtained results to an antinoise coding.

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Keywords

Cauchy integral, Generalized allocation scheme, Hamming code